SEE E.O. A-14-117-1

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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-14-117 Relating to Certification of New Motor Vehicles

TOYOTA MOTORS CORPORATION

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Orders G-45-3 and G-45-4;

IT IS ORDERED AND RESOLVED: That 1988 model-year Toyota Motors Corporation exhaust emission control systems are certified as described below for gasoline-powered light-duty trucks:

Engine Family		lacement Cubic Inches)	Exhaust Emission Control Systems (Special Features)
JTY2.2T5FBBX	2.2	(136.5)	Exhaust Gas Recirculation Three-Way Catalyst Heated Oxygen Sensor Oxygen Sensor (After Catalyst) (Electronic Port Fuel Injection)

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The following are the emission standards for this engine family:

Loaded Vehicle <u>Weight</u>	Hydrocarbons Grams per Mile	Carbon Monoxide Grams per mile	Nitrogen Oxides Grams per Mile
0-3750	0.39	9.0	1.0

The following are the certification emission values for this engine family:

Loaded Vehicle Weight	Hydrocarbons Grams per Mile	Carbon Monoxide Grams per Mile	Nitrogen Oxides Grams per Mile
0-3750	0.26	2.4	0.5

BE IT FURTHER RESOLVED: That the listed models were certified to the optional NOx emission standard thereby making the vehicle manufacturer subject to Section 1960.1.5 of Title 13, California Administrative Code which includes recall liability for emission control components up to 7 years or 75,000 miles if found defective by the Executive Officer.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Gasoline-Powered Motor Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" (Title 13, California Administrative Code, Section 2290) for the aforementioned model-year.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high altitude requirements and highway emission standards as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Tune-Up Label Specifications" (Title 13, California Administrative Code, Section 1965) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the vehicle models listed have been granted an exemption from compliance with the requirements of the "Malfunction and Diagnostic System for 1988 and Subsequent Model Year[s]..." (Title 13, California Administrative Code, Section 1968) for the aforementioned model year.

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2035 et seq.) and with Health and Safety Code Section 43204.

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this 26th day of August, 1987.

K. D. Drachand, Chief for

Mobile Source Division

17.11.00 Supplemental data sheets

17.11.00 Supplemental data Si	neets					
1988 AIR RE	SOURCES I	BOARD SUPPLEMENTAL	DATA SHE			* <u>A-1411</u> -
Manufacturer Toyota Motor Corpo	<u>oration</u>	Engine Family	JTY2.2	2T5FBBX		_
Evaporative FamilyEV-E		Engine Type	4 cyl.	<u>in-li</u>	ne	_
		Liters (CID)	2.2	(136.5)		
ABBREVIATIONS						
Ignition System	Exhaust	Emissions Control	System	Specia	ıl Feat	tures
CA-Centrifugal Advance		Injection-Pump		CCV-Cc		
ECU-Electronic Control Unit		Injection-Valve				Valve
EI-Electronic Ignition		l Bed Catalyst		CFI-Ce	ntral	Fuel
ESAC-Electronic Spark Advance	EGR-Exha	aust Gas Recircula	tion	In	jectio	on
Control		ctronic Injection	Control	DID-Diesel		
VA-Vacuum Advance	-	ne Modification		Injection-		
VR-Vacuum Retard		ation Catalyst		Direct		
		en sensor		DIP-Di		
		ted Oxygen Sensor ke Puff Limiter or			jection echami	
		ottle Delay		EFI-El		·
		Oxidizer, Contin	ual			jection
Fuel System		Oxidizer, Period		IC-Int		
CFI, CL, DID, DIP, EFI, MFI	_	ee-Way Catalyst		or	after	cooler
nV-nVenturi Carburetor		rm-Up Oxidation Ca	_	MFI-Me	chani	cal
	WUTWC-W	arm-Up Three-Way C	atalyst			jection
				OBD-Or		
					agnos	
				TC-Tur	bochai	rger
<u>VEHICLE MODELS</u> :						
Van 2WD (Passe	nger)	Van 2WD (Cargo)				
YR22LG-MDE		YR23LV-MDEA				
-MQE	A	-PDEA				
-PDE	A	YR29LV-MRBEA				
PQE	A	-PRBEA				
Engine: Front x Mid	Rea	ar				
Drive: FWD RWD	x 4WI	Full time	4WD Par	ct time		_
						_

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Passenger (Cars Light-D			Medium-Duty		Page	e2 esel
Manufactur	er <u>Toyota Mo</u>	tor Corp	poration	n Engine	e family	JTY2.2T5	FBBX
) 2.2 ontrol Sys. (Spec						
Engine code	Vehicle Models (If Coded see attachment) (Dyno Hp: Refer to 08.13.03.00)	Туре	Test	Ign. System EEC,EI,ESAC Part No. [Computer]	CL, EFI Part No.		Catalyst Part No.
l thru 4	YR22LG-MDEA -MQEA YR23LV-MDEA YR29LV-MREA -MRBEA	м5	3,250 3,375 3,500 3,625 3,625	89661-28090	89661-28090 22250-73010 23250-73010	25620-73010	18450-73110
5 thru 8	YR22LG-PDEA -PQEA YR23LV-PDEA YR29LV-PREA -PRBEA	A4	3,250 3,375 3,500 3,625				

Comments: See page one for abbreviations and evaporative emission family identification. Please refer to manufacturer's HP list for correct dyno test HP settings based on model and equipment. If two test weights are listed, the lower weight will be used for testing.

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